## We Claim:

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- 1. A method for detecting kalinin/laminin 5 expression in cells and tissue comprising detecting a signal from the tissue assayed, such signal resulting from specifically hybridizing the tissue with an effective amount of a nucleic acid probe, which probe contains a sense or antisense portion of the kalinin/laminin 5 gamma-2 chain nucleic acid sequence.
  - 2. The method of claim 1 where the nucleic acid probe is DNA.
- The method of claim 1 where the nucleic acid probe is RNA.
  - 4. The method of claim 1 where the nucleic acid probe is radiolabelled, enzyme labelled, chemiluminescent labelled, avidin or biotin labelled.
- 15 5. The method of claim 1 where the nucleic acid probe derived from human kalinin/laminin 5 gamma-2 chain nucleic acid sequence.
  - 6. The method of claim 1 where the nucleic acid probe is incorporated into an extrachromasomal self-replicating vector.
  - 7. The method of claim 1 where the nucleic acid probe is incorporated into a viral vector.
    - 8. The method of claim 1 where the nucleic acid probe is linear.
    - 9. The method of claim 1 where the nucleic acid probe is circularized.
  - 10. The method of claim 1 where the nucleic acid probe contiains modified nucleotides.
  - 11. A method for detecting the presence of invasive cells in tissue comprising detecting a signal from the tissue assayed, such signal resulting from specifically hybridizing the tissue with an effective amount of a nucleic acid probe, which probe contains a sense or antisense portion of kalinin/laminin 5 gamma-2 chain nucleic acid sequence.
    - 12. The method of claim 11 where the nucleic acid probe is DNA.

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- 13. The method of claim 11 where the nucleic acid probe is RNA.
- 14. The method of claim 11 where the nucleic acid probe is radiolabelled, enzyme labelled, chemiluminescent labelled, avidin or biotin labelled.
  - 15. The method of claim 11 where the nucleic acid probe derived from human kalinin/laminin 5 gamma-2 chain nucleic acid sequence.
- 16. The method of claim 11 where the nucleic acid probe is incorporated into an extrachromasomal self-replicating vector.
  - 17. The method of claim 11 where the nucleic acid probe is incorporated into a viral vector.
    - 18. The method of claim 11 where the nucleic acid probe is linear.
    - 19. The method of claim 11 where the nucleic acid probe is circularized.
- 20 The method of claim 11 where the nucleic acid probe contiains modified nucleotides.
  - 21. A method for monitoring the presence of invasive cells in tissue comprising detecting a signal or absence of signal from the tissue assayed, such signal resulting from specifically hybridizing the tissue with an effective amount of a nucleic acid probe, which probe contains a sense or antisense portion of kalinin/laminin 5 gamma-2 chain nucleic acid sequence.
    - 22. The method of claim 21 where the nucleic acid probe is DNA.
    - 23. The method of claim 21 where the nucleic acid probe is RNA.
  - 24. The method of claim 21 where the nucleic acid probe is radiolabelled, enzyme labelled, chemiluminescent labelled, avidin or biotin labelled.

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- 25. The method of claim 21 where the nucleic acid probe derived from human kalinin/laminin 5 gamma-2 chain nucleic acid sequence.
- 26. The method of claim 21 where the nucleic acid probe is incorporated into an extrachromasomal self-replicating vector.
  - 27. The method of claim 21 where the nucleic acid probe is incorporated into a viral vector.
- 10 28. The method of claim 21 where the nucleic acid probe is linear.
  - 29. The method of claim 21 where the nucleic acid probe is circularized.
- 30. The method of claim 21 where the nucleic acid probe contiains modified nucleotides.
  - 31. A method for detecting kalinin/laminin 5 expression in cells and tissue comprising detecting a signal from assayed tissue, such signal resulting from contacting tissue with an effective amount of a labeled probe, which probe contains an antibody immunoreactive with a portion of kalinin/laminin 5 gamma-2 chain protein.
  - 32. A method for detecting invasive cells in tissue comprising detecting a signal from assayed tissue, such signal resulting from contacting tissue with an effective amount of a labeled probe, which probe contains an antibody immunoreactive with a portion of kalinin/laminin 5 gamma-2 chain protein.
  - 33. A method for monitoring invasive cells in malignant tissue comprising detecting a signal from assayed malignant tissue, such signal resulting from contacting tissue with an effective amount of a labeled probe, which probe contains an antibody immunoreactive with a portion of kalinin/laminin 5 gamma-2 chain protein.

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